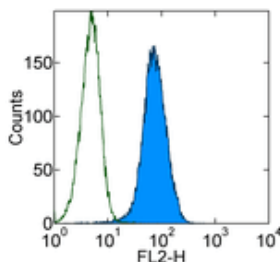


## Anti-Mouse RAE1 delta Purified

Catalog Number: 14-5756

Also Known As: RAE-1 delta, RAE1d

RUO: For Research Use Only



Staining of dendritic cell line with 0.125 µg of Mouse IgG1 κ Isotype Control Purified (cat. 14-4714) (open histogram) or 0.125 µg of Anti-Mouse RAE1δ Purified (filled histogram) followed by F(ab')<sub>2</sub> Anti-Mouse IgG PE (cat. 12-4012). Total viable cells were used for analysis.

### Product Information

Contents: Anti-Mouse RAE1 delta Purified


**REF** Catalog Number: 14-5756

Clone: RD-41


Concentration: 0.5 mg/ml


Host/Isotype: Mouse IgG1

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

 Temperature Limitation: Store at 2-8°C.

**LOT** Batch Code: Refer to Vial

 Use By: Refer to Vial

 Caution, contains Azide

### Description

The RD-41 monoclonal antibody reacts with the murine Rae1δ. Rae1δ is one of several known murine NKG2D ligands that include RAE-1 molecules (α, β, ε, γ and δ), H60 and MULT-1. Expression of NKG2D ligands is low or absent on normal adult tissues. However, stressed or transformed cells express NKG2D ligands which in turn activates NK cells tumoricidal activity through NKG2D. Until now, the expression of NKG2D ligands has been mainly studied with NKG2D tetramers which recognizes all NKG2D ligands. The RD-41 antibody has been reported to block tetramer staining.

### Applications Reported

This RD-41 antibody has been reported for use in flow cytometric analysis, immunohistology staining of frozen tissue sections and ELISA.

### Applications Tested

This RD-41 antibody has been tested by flow cytometric analysis of dendritic cell line. This can be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

### References

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Cerwenka A, Bakker AB, McClanahan T, Wagner J, Wu J, Phillips JH, Lanier LL. Retinoic acid early inducible genes define a ligand family for the activating NKG2D receptor in mice. *Immunity.* 2000 Jun;12(6):721-7.

O'Callaghan CA, Cerwenka A, Willcox BE, Lanier LL, Bjorkman PJ. Molecular competition for NKG2D: H60 and RAE1 compete unequally for NKG2D with dominance of H60. *Immunity.* 2001 Aug;15(2):201-11.

Diefenbach A, Jensen ER, Jamieson AM, Raulet DH. Rae1 and H60 ligands of the NKG2D receptor stimulate tumour immunity. *Nature.* 2001 Sep 13;413(6852):165-71.

Carayannopoulos LN, Naidenko OV, Kinder J, Ho EL, Fremont DH, Yokoyama WM. Ligands for murine NKG2D display heterogeneous binding behavior. *Eur J Immunol.* 2002 Mar;32(3):597-605.

### Related Products

11-4011 Anti-Mouse IgG FITC

12-4012 F(ab')<sub>2</sub> Anti-Mouse IgG PE (polyclonal)  
14-4714 Mouse IgG1 K Isotype Control Purified

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